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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,287	07/09/2003	Hiroyuki Takahashi	16816	9906
23389 75	90 01/20/2006	EXAMINER		
	OTT MURPHY & PRE	JOHNSON III, HENRY M		
400 GARDEN ( SUITE 300	CITY PLAZA		ART UNIT	PAPER NUMBER
GARDEN CITY	Y, NY 11530		3739	

DATE MAILED: 01/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/616,287	TAKAHASHI, HIRO	ЭҮИКІ		
		Examiner	Art Unit			
		Henry M. Johnson, III	3739			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence add	dress		
A SH WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 21 No.	ovember 2005.				
	This action is <b>FINAL</b> . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 21-32 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 21-32 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>21 November 2005</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a) $\square$ accepted or b) $\boxtimes$ object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).		
Priority ι	under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) 🔲 Notic 3) 🔲 Infor	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate	)-152)		

# Response to Arguments

Applicant's arguments filed 11/21/2005 have been fully considered but they are not persuasive. System claims are based on the structure of the invention. Replacing equipment during a procedure is related to a method of using, not the system structure. A system with identification capability would inherently detect a change in a parameter used in operational decision making.

### **Drawings**

The informal replacement drawings are acknowledged, however, when the application is allowed, applicant will be required to submit new formal drawings.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

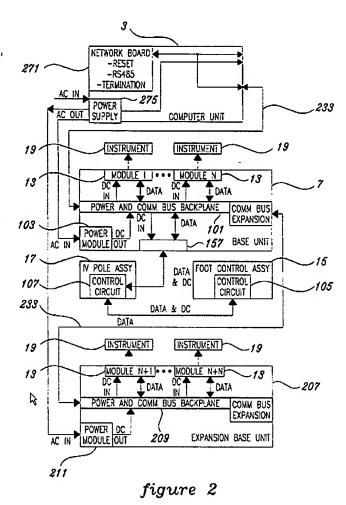
Claims are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,117,126 to Applebaum et al. in view of U.S. Patent 6,793,652 to Whitman et al. and further in view of U.S. Patent Application Publication US 2002/0002368 to Tomita et al. Applebaum et al. teach a surgical system with independent microprocessor control of a plurality of surgical instruments with communications between the surgical instruments (abstract). The instruments (Fig. 2, #19) each have a microprocessor interface module (Fig. 2, #13) connected to a bus for communications to a main computer unit (Fig. 2, #271). The microprocessors are interpreted as control units. Panel controls or a foot switch (Fig. 2, #15) may operate the instruments.

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Applebaum et al. teach it may be desirable to prevent certain instruments from operating simultaneously for safety reasons. For example, a phacoemulsification instrument is disabled by

the bipolar coagulation instrument when the latter is being used and vice-versa. In contrast, the aspiration function is needed during phacoemulsification or phacofragmentation (Col. 18, lines 10-20). Thus, Applebaum et al. clearly teach a permission/no permission capability. The identification of each module is known to the system as are the operating parameters of the module and its instrument (Col. 20, lines 55-60). The modules and the central computer make up a control device. While Applebaum et al. teach the identification of the instruments by identification of control modules, a dynamic identification is not disclosed. Whitman et al. teach a surgical



system wherein data on the instrument is stored in memory when it is attached (Col. 10, lines 5-15). In addition to the serial number of the instrument, usage data is also provided. Clearly, if an instrument were disconnected or exchanged, the identification information would change, providing new inputs to the control units that determine synchronous operations. It would have been obvious to one having ordinary skill in the art at the time the invention was made to sense the instrument when it is attached as taught by Whitman et al. in the system of Applebaum et al. when instruments are likely to be interchanged or replaced to insure safety of operations. The

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usage parameters included in the Whitman et al. identification information provides ample motivation.

Neither Applebaum et al. nor Whitman et al. teach two foot switches. Tomita et al. disclose two independent surgical instruments, each with its own foot switch and communications between the devices to control the operation of the devices by either foot switch. The use of foot switches is common and pervasive in the art. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use multiple foot switches as taught by Tomita et al. in the invention of Applebaum et al./Whitman et al. as an alternative means of operation, rather than from the console, switches on the handpiece or any of the various means available in the art.

Regarding claim 29, it is inherent switch data is present in order for a decision on simultaneous operation to be made.

Regarding claims 30-32, Applebaum et al. teach controlling instruments such as intraocular pressure (IOP), scissors cutting, forceps control, ultrasound (e.g., for phacoemulsification or phacofragmentation), irrigation, aspiration, vitrectomy cutting, bipolar coagulation and/or illumination.

Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,117,126 to Applebaum et al. in view of U.S. Patent 6,793,652 to Whitman et al. and further in view of U.S. Patent Application Publication US 2002/0002368 to Tomita et al. as applied to claim 22 above, and further in view of U.S. Patent 5,502,726 to Fischer. Applebaum et al., Whitman et al. and Tomita et al. are discussed above, but do not disclose timeouts. The use of timeout circuits and watchdog timers is well known in the art as evidenced by the Fischer patent that teaches a medical network that uses a watchdog timer (Fig. 5, # 526) to check for timeliness of data transfers and to initiate a program sequence in the event of a timeout.

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Watchdog timers are designed to detect abnormal conditions by looking for a recurring signal.

Action is initiated if the signal is not detected. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the timeout circuits as taught by Fischer in the system of Bauer et al. to insure system integrity.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,068,627 to Orszulak et al. teaches identification of specific surgical instruments attached to an electrosurgical source by a unique plug configuration.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M. Johnson, III whose telephone number is (571) 272-4768. The examiner can normally be reached on Monday through Friday from 6:00 AM to 3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry M. Johnson, II

Patent Examiner Art Unit 3739

ROY D. GIBSON
PRIMARY EXAMINER